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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,297	11/02/2001	Roland Boss	10011080-1	2488
759	90 05/25/2005		EXAMINER	
HEWLETT-PACKARD COMPANY			GOFF II, JOHN L	
Intellectual Prop	perty Administration			
P.O. Box 27240			ART UNIT	PAPER NUMBER
Fort Collins, Co	O 80527-2400		1733	
			DATE MAILED: 05/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

•			ye
	Application No.	Applicant(s)	
	10/001,297	BOSS, ROLAND	
Office Action Summary	Examiner	Art Unit	
_	John L. Goff	1733	
The MAILING DATE of this communication appeared for Reply	ppears on the cover sheet with th	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be eply within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS fruite, cause the application to become ABANDO	timely filed days will be considered timely. om the mailing date of this communicatio NED (35 U.S.C. § 133).	n.
Status			
1) Responsive to communication(s) filed on 11	Mav 2003.		
•	nis action is non-final.		
3) Since this application is in condition for allow	vance except for formal matters,	prosecution as to the merits is	3
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.	
Disposition of Claims	•		
4) Claim(s) 1,4,5,7-10,12-16 and 27 is/are pend 4a) Of the above claim(s) 5 and 14 is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1,4,7-10,12,13,15,16 and 27 is/are is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and. Application Papers 9) The specification is objected to by the Examination 10 to the drawing(s) filed on 02 November 2001 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11 The oath or declaration is objected to by the Iteration 11 objected to by the Iteration 12 objected to by the Iteration 13 objected to by the Iteration 14 objected 15 objected 1	ndrawn from consideration. rejected. /or election requirement. ner. //are: a) ☑ accepted or b) ☐ objected or b i ☐ objection is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119			
a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list	nts have been received. nts have been received in Applic iority documents have been rece eau (PCT Rule 17.2(a)).	ation No ived in this National Stage	
Attachment(s) 1) ⊠ Notice of References Cited (PTO-892)	4) 🔲 Interview Summ	ary (PTO-413)	
 Notice of References Cited (FTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0: Paper No(s)/Mail Date 	Paper No(s)/Mail		

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/11/05 has been entered.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

3. Claims 1, 4, 7, 9, 10, 12, 13, 15, and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Muller (U.S. Patent 5,350,268).

Muller discloses a method of binding a plurality of sheets into a bound sheet stack to form a book, catalog, booklet/pamphlet, etc. Muller teaches (sequentially) providing a plurality of sheets (e.g. including three or more), printing an image on each sheet, applying a binding/protective polymer coating to each sheet, overlaying the plurality of sheets to form a stack, and applying ultrasonic energy to the stack in a binding region (e.g. along a folded portion of the sheets extending from the edge) such that the binding/protective polymer coating of each sheet fuses to adjacent sheets in the stack to form a bound sheet stack (Figure 9 and Column 5, lines 45-48 and Column 6, lines 1-14). Muller teaches ultrasonic binding by fusing the

binding/protective polymer coating produces a bond that requires less labor and cost than can be achieved by binding through stapling, sewing, adhesive binding, etc. (Column 2, lines 14-25). Muller does not specifically recite the binding/protective polymer coating is transparent. However, as Muller teaches the binding/protective polymer coating is applied after printing (Column 5, lines 45-48 and Column 6, lines 1-14) it is inherent to Muller that the binding/protective polymeric coating is transparent.

Claim Rejections - 35 USC § 103

4. Claims 1, 4, 7, 9, 10, 12, 13, 15, 16, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muller optionally in view of the admitted prior art (Specification pages 1-3).

Muller is described in full detail above. As noted above, Muller does not specifically recite the binding/protective polymer coating is transparent. However, as Muller teaches the binding/protective polymer coating is applied after printing (Column 5, lines 45-48 and Column 6, lines 1-14) it appears intrinsic to Muller that the binding/protective polymeric coating is transparent. In any event, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use as the binding/protective polymer coating taught by Muller one that is transparent such that the printed images on the sheet are visible as would have been well known in the art as shown for example optionally by the admitted prior art.

Regarding claim 27, Muller while teaching printing an image on each does not specifically teach printing includes thermally fusing an imaging media to the sheet. However, Muller is not limited to any particular printing method, and it would have been obvious to one of ordinary skill in the art at the time the invention was made to perform the printing taught by

Muller using a well know process such as thermal image fusing, it being noted the admitted prior art is optionally cited as an example in the art of this well know printing technique.

The admitted prior art discloses conventional methods to bind sheets of media together. The admitted prior art teaches (sequentially) providing multiple sheets, applying (e.g. by "thermally" fusing) an imaging media to the sheets from an imaging device, coating each sheet with a protective polymer coating (the coating may be transparent), overlaying the sheets to form a sheet stack, and binding the sheets together in a binding region by for example stapling, stitching, gluing, etc. (Page 1, lines 9-15 and Page 2, lines 3-26 and Page 3, lines 1-3).

5. Claims 1, 4, 7, 10, 12, 13, 15, 16, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (Specification pages 1-3) in view of Muller.

The admitted prior art is described above in full detail. The admitted prior art is silent as to binding the sheets together by fusing the sheets through the protective polymer coating in the binding regions. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to bind the multiple polymer coated sheets taught by the admitted prior art by ultrasonic fusing in the binding regions as it was a well known alternative in the art to form a bound paper stack as opposed to binding by stapling, stitching, gluing, etc. as shown for example by Muller for benefits such as easier to recycle, cheaper material and labor cost, etc. Muller is described above in full detail.

Regarding claims 13 and 15, the admitted prior art teaches binding multiple media sheets together. It would have been obvious to one of ordinary skill in the art at the time the invention was made that "multiple" media sheets would have encompassed binding three sheets.

6. Claims 7-9 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muller as applied to claims 1, 4, 7, 9, 10, 12, 13, 15, and 16 above, Muller and optionally the admitted prior art as applied to claims 1, 4, 7, 9, 10, 12, 13, 15, 16, and 27 above, or the admitted prior art and Muller as applied to claims 1, 4, 7, 10, 12, 13, 15, 16, and 27 above, and further optionally in view of Sendor et al. (GB 1289387).

Muller (or Muller as optionally modified by the admitted prior art or the admitted prior art as modified by Muller) does not specifically teach all the various binding regions claimed. However, it is noted Muller (or Muller as optionally modified by the admitted prior art or the admitted prior art as modified by Muller) teaches binding a plurality of sheets together to form a bound stack. It would have been obvious to one of ordinary skill in the art at the time the invention was made that the method taught by Muller (or Muller as optionally modified by the admitted prior art or the admitted prior art as modified by Muller) used to form products such as books, catalogs, booklets/pamphlets, etc. would have included fusing in the different claimed binding regions depending upon the particular above product made, Sendor et al. optionally cited as evidence of it requiring nothing more than ordinary skill to determine these well known binding regions.

Sendor et al. disclose a method of binding a plurality (e.g. more than three) of sheets into a bound stack to form a book, magazine, pamphlet, letter, etc. Sendor et al. teach providing a plurality of paper sheets, applying a binding/protective polymer (e.g. polyethylene) coating to at least a portion of each sheet, overlaying the plurality of sheets to form a stack, and applying binding energy (e.g. heat and pressure) to the stack in a binding region such that the binding/protective polymer coating of each sheet fuses to adjacent sheets in the stack to form a

multiple paper form such as a book, magazine, pamphlet, letter, etc. Sendor et al. teach binding by fusing the binding/protective polymer coating produces a bond that requires less labor and cost than can be achieved by binding through stapling, sewing, adhesive binding, mechanical binding, etc. Sender et al. further teach that choosing the particular binding regions as a function of the product produced is a conventional technique in the art (Page 1, lines 13-34, 48-52, and 69-72 and Page 3, lines 2-29 and 54-66).

Response to Arguments

7. Applicant's arguments with respect to claims 1, 4, 7-10, 12, 13, 15, 16, and 27 have been considered but are most in view of the new ground(s) of rejection. In view of applicants amendment to specifically require ultrasonic binding energy the previous rejections are withdrawn.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John L. Goff whose telephone number is (571) 272-1216. The examiner can normally be reached on M-F (7:15 AM - 3:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on (571) 272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/001,297

Art Unit: 1733

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John L. Goff

PRIMARY EXAMINEF GROUP 1300

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